CONTENTS

British Volume, 80-B, 1998

Editorials

Jubilee - 50 years of the British Volume 1
P. Fulford

50th Anniversary dinner 4

Editorial comment 8

Reviewers 1997 9

The management of the sprained ankle 11
L. Klenerman

Anterior cruciate ligament reconstruction 189
D. J. Dandy and J. L. Hobby

Wear of polyethylene in artificial hip joints 190
J. Fisher

Management of the orthopaedic complications of haemophilia 191
E. Carlos Rodríguez-Merchán

Change of Editor 565

Academic orthopaedics - a discipline at risk 566
N. Rushton

Discount pricing for residents and registrars 753
H. R. Cowell and F. Horan

The control of new prosthetic implants 941
P. Grigoris and D. Hamblen

Neonatal detection of developmental dysplasia of the hip (DDH) 943
D. Jones

Topics for debate

International orthopaedic journals: a 15-year review 6
J. Stuart Moir, A. G. Sutherland and N. Maffulli

Superolateral wear of the acetabulum 197
D. W. Murray and J. J. O'Connor

Femoral stem fixation 754
G. Shen

Scientific papers

Synthetic porous ceramic compared with autograft in scoliosis surgery 13
A. O. Ransford, T. Morley, M. A. Edgar, P. Webb, N. Passuti, D. Chopin, C. Morin, F. Michel, C. Garin and D. Pries

MRI of cervical intervertebral discs in asymptomatic subjects 19
M. Matsumoto, Y. Fujimura, N. Suzuki, Y. Nishi, M. Nakamura, Y. Yabe and H. Shiga

Atypical congenital kyphosis 25
H. W. Kim and S. L. Weinstein

Solitary bone cyst in the odontoid process and body of the axis 30
Q. Shen, L. Jia and Y. Li

Posterior movement and enlargement of the spinal cord after cervical laminoplasty 33
I. Aita, K. Hayashi, Y. Wadano and T. Yabuki

Function after subtotal scapulectomy for neoplasm of bone and soft tissue 38
C. L. M. H. Gibbons, R. S. Bell, J. S. Wunder, A. M. Griffin, B. O'Sullivan, C. N. Catton and A. M. Davis

Giant-cell tumour of bone metastasising to the lungs 43
K. A. Siebenrock, K. K. Unni and M. G. Rock

Long-term behaviour of the Charnley offset-bore acetabular cup 48
T. T. Ioannidis, N. Zacharakis, E. A. Magnissalis, G. Eliades and G. Hartofilakidis

Transient osteoporosis of the hip associated with osteogenesis imperfecta 54
C. B. Karagkevrekis and D. A. P. Ainscow

The trapdoor procedure using autogenous cortical and cancellous bone grafts for osteonecrosis of the femoral head 56
M. A. Mont, T. A. Einhorn, P. D. Sponseller and D. S. Hungerford

Questionnaire on the perceptions of patients about total knee replacement 63
J. Dawson, R. Fitzpatrick, D. Murray and A. Carr

Long-term results after nailing in situ of slipped upper femoral epiphysis 70
G. Hansson, L. Billing, B. Högstedt, R. Jerre and J. Wallin

Long-term results of late non-operative reduction of developmental dysplasia of the hip 78
R. M. Kerry and G. W. Simonds

The conservative management of acute pyogenic iliopsoas abscess in children 83
C. W. C. Tong, J. F. Griffith, T. P. Lam and J. C. Y. Cheng

Tendon transfer with a microvascular free flap for injured feet in children 86
S. B. Hahn, J. W. Lee and J. H. Jeong

Percutaneous intramedullary Kirschner wiring for displaced diaphyseal forearm fractures in children 91
S. H. Yung, C. Y. Lam, K. Y. Choi, K. W. Ng, N. Maffulli and J. C. Y. Cheng

Acute percutaneous scaphoid fixation 95
F. S. Haddad and N. J. Goddard

Outcome of ulnar neurolysis during post-traumatic reconstruction of the elbow 100
M. D. McKee, J. B. Jupiter, G. Bosse and L. Goodman

Fixation of fractures of the midshaft of the clavicle with Kirschner wires 106
C. Ngarmukos, V. Parkpian and A. Patradul

Trapezius transfer after brachial plexus palsy 109
O. Rühmann, C. J. Wirth, F. Gossé and S. Schmolke

Trapezius transfer for deltoid paralysis 114
P. P. Kotwal, R. Mittal and R. Malhotra

Free muscle transfer can restore hand function after injuries of the lower brachial plexus 117
K. Doi, Y. Hattori, N. Kuwata, T. Soo-Heong, F. Kawakami, K. Otsuka and M. Watanabe

Cemented and non-cemented replacements of the trapeziometacarpal joint 121
S. W. Wachtl, P. R. Guggenheim and G. R. Sennwald

The use of skeletal traction in the treatment of severe primary Dupuytren's disease 126
N. Citron and J. C. Messina

Tarsal tunnel syndrome caused by coalition associated with a ganglion 130
Y. Takakura, T. Kumai, T. Takaoka and S. Tamai

Subtalar arthrodesis with internal compression for post-traumatic arthritis 134
D. L. Dahm and H. B. Kitaoka

The extended lateral approach to the hindfoot 139
B. J. C. Freeman, S. Duff, P. E. Allen, H. D. Nicholson and R. M. Atkins

Microsurgical excision of lateral lumbar disc herniation through an interlaminar approach 201
F. Postacchini, G. Cinotti and S. Gumina

Orientation of lumbar pars defects 208
A. Saifuddin, J. White, S. Tucker and B. A. Taylor

Idiopathic scoliosis in twins studied by DNA fingerprinting 212
M. Inoue, S. Minami, H. Kitahara, Y. Otsuka, Y. Nakata, M. Takaso and H. Moriya

The anatomy of acute scaphoid fractures 218
J. P. Compson

Rupture of flexor pollicis longus tendon 225
J. S. P. Bell, R. Wollstein and N. D. Citron

External fixation for phalangeal and metacarpal fractures 227
D. J. Drenth and H. J. Klasen

Resection of the radial head after Mason type-III fractures of the elbow 231
R. P. A. Janssen and J. Vegter

Non-constrained elbow arthroplasty for mutilans deformity in rheumatoid arthritis 234
H. Kudo

The posterior interosseous nerve and the posterolateral approach to the proximal radius 240
J. D. Witt and S. Kamineni

Epidemiology of fractures in 15 000 adults 243
B. R. Singer, G. J. McLauchlan, C. M. Robinson and J. Christie

The epidemiology of humeral shaft fractures 249
G. Tytherleigh-Strong, N. Walls and M. M. McQueen

Vascular injuries in compound fractures of the leg with initially adequate circulation 254
S. Waikakul, S. Sakkarnkosol and V. Vanadurongwan

Indomethacin *versus* radiation therapy for prophylaxis against heterotopic ossification in acetabular fractures 259
K. D. Moore, K. Goss and J. O. Anglen

Pelvic insufficiency fracture with diastasis of the pubic symphysis after irradiation 264
C. Rex and C. Elsworth

Severe osteolysis after third-body wear due to hydroxyapatite particles from acetabular cup coating 267
E. W. Morscher, A. Hefti and U. Aebi

Stem fixation in the Charnley low-friction arthroplasty in young patients using an intramedullary bone block 273
B. M. Wroblewski, P. A. Fleming, R. M. Hall and P. D. Siney

Diagnostic value of intra-articular anaesthetic in primary osteoarthritis of the hip 279
R. W. Crawford, G. A. Gie, R. S. M. Ling and D. W. Murray

Retrograde nailing of femoral fracture below a hip prosthesis 282
A. D. Verburg

Function of reinserted abductor muscles after femoral replacement 284
A. Giurea, T. Paternostro, G. Heinz-Peer, A. Kaider and F. Gottsauner-Wolf

Endoscopic reconstruction for isolated anterior cruciate ligament rupture 288
J. M. Webb, I. S. Corry, A. J. Clingeleffer and L. A. Pinczewski

Fixation of the tibial component of total knee arthroplasty after high tibial osteotomy 295
S. Toksvig-Larsen, G. Magyar, I. Önsten, L. Ryd and A. Lindstrand

Lipoma arborescens of the knee 298
P. Kloen, S. B. Keel, H. P. Chandler, R. H. Geiger, B. Zarins and A. E. Rosenberg

Is there a future for hinged prostheses in primary total knee arthroplasty? 302
P. Böhm and T. Holy

Prognosis in Perthes' disease 310
A. M. Ismail and M. F. Macnicol

Development of the hip in diastrophic dysplasia 315
P. Vaara, J. Peltonen, M. Poussa, J. Merikanto, M. Nurminen, I. Kaitila and S. Ryöppy

Ultrasonography of the hip in developmental hip dysplasia 321
E. Bar-On, S. Meyer, G. Harari and S. Porat

The Singapore operation for recurrent dislocation of peroneal tendons 325
J. H. P. Hui, S. Das De and P. Balasubramaniam

Ankle arthroplasty for rheumatoid arthritis and osteoarthritis 328
H. Kofoed and T. S. Sørensen

Osteoarthritis of the ankle after foreign-body reaction to absorbable pins and screws 333
O. M. Böstman

Migration and wear of long-term successful Charnley total hip replacements 377
T. Ilchmann, L. Markovic, A. Joshi, K. Hardinge, J. Murphy and H. Wingstrand

The value of preoperative planning for total hip arthroplasty 382
S. Eggli, M. Pisan and M. E. Müller

Acetabular reconstruction with impacted morsellised cancellous bone graft and cement 391
B. W. Schreurs, T. J. J. H. Slooff, P. Buma, J. W. M. Gardeniers and R. Huiskes

Survival analysis of the Harris-Galante I acetabular cup 396
P. Böhm and R. Bösche

The Metal-Cancellous Cementless Lübeck total hip arthroplasty 404
M. Matsui, K. Nakata, K. Masuhara, K. Ohzono, N. Sugano and T. Ochi

The protective effect of a cut-resistant glove liner 411
P. M. Sutton, T. Greene and F. R. Howell

Tantalum ball position after total hip arthroplasty 414
J. D. J . Eldridge, K. Avramidis, M. Lee and I. D. Learmonth

Hydroxyapatite augmentation of the porous coating improves fixation of tibial components 417
I. Önsten, A. Nordqvist, Å. S. Carlsson, J. Besjakov and S. Shott

Pain in the assessment of total knee replacement 426
D. W. Murray and S. J. D. Frost

The influence of osteoporosis on varus osteoarthritis of the knee 432
M. Terauchi, K. Shirakura, M. Katayama, H. Higuchi and K. Takagishi

Clinical and pathological changes in the knee after accidental chlorhexidine irrigation during arthroscopy 437
C. M. Douw, S. K. Bulstra, J. Vandenbroucke, R. G. T. Geesink and A. Vermeulen

Evaluation of fluorodeoxyglucose positron emission tomography in the management of soft-tissue sarcomas 441
J. D. Lucas, M. J. O'Doherty, J. C. H. Wong, J. B. Bingham, P. H. McKee, C. D. M. Fletcher and M. A. Smith

Aortic pseudoaneurysm in the L3-L4 disc space after lumbar disc surgery 448
M. Tanaka, S. Nakahara and M. Tanizaki

Treatment of type-two odontoid fractures in halothoracic vests 452
J. Stoney, J. O'Brien and P. Wilde

A 15-year assessment of controlled trials of the management of tuberculosis of the spine in Korea and Hong Kong 456
Thirteenth Report of the Medical Research Council Working Party on Tuberculosis of the Spine

MRI high-signal intensity in the menisci of asymptomatic children 463
Y. Takeda, T. Ikata, S. Yoshida, H. Takai and S. Kashiwaguchi

Neuropathic arthropathy of the knee associated with an intra-articular neurofibroma in a child 468
F. Lokiec, R. Arbel, J. Isakov and S. Wientroub

Reduced incidence of septic arthritis in children by *Haemophilus influenzae* type-b vaccination 471
H. Peltola, M. J. T. Kallio and L. Unkila-Kallio

A new test for estimating iliotibial band contracture 474
V. K. Gautam and S. Anand

Fractures of the clavicle in the adult 476
C. M. Robinson

Reamed *versus* unreamed femoral nails 485
M. G. Clatworthy, D. I. Clark, D. H. Gray and A. E. Hardy

Reconstruction of the coronoid for chronic dislocation of the elbow 490
H. Moritomo, K. Tada, T. Yoshida and N. Kawatsu

A new provocative test for carpal tunnel syndrome 493
A. M. Tetro, B. A. Evanoff, S. B. Hollstien and R. H. Gelberman

Pain relief after nerve resection for post-traumatic neuralgia 499
T. Yamashita, S. Ishii and M. Usui

Denervation of the radiocarpal joint 504
W. Grechenig, M. Mähring and H. G. Clement

First metacarpal osteotomy for trapeziometacarpal osteoarthritis 508
J. L. Hobby, H. A. Lyall and B. F. Meggitt

Incidence and clinical significance of bone bruises after supination injury of the ankle 513
V. Alanen, S. Taimela, J. Kinnunen, S. K. Koskinen and E. Karaharju

Chevron osteotomy of lesser metatarsals for intractable plantar callosities 516
H. B. Kitaoka and G. L. Patzer

Improved detection of infection in hip replacements 568
M. M. Tunney, S. Patrick, S. P. Gorman, J. R. Nixon N. Anderson, R. I. Davis, D. Hanna and G. Ramage

Loosening of matt and polished cemented femoral stems 573
D. W. Howie, R. G. Middleton and K. Costi

Comparison of the Wrightington FC hip with the Charnley low-friction arthroplasty 577
D. H. Sochart and K. Hardinge

Osteolysis after Charnley primary low-friction arthroplasty 585
R. P. Joshi, N. S. Eftekhar, D. J. McMahon and O. A. Nercessian

The importance of systematic histological examination after loosening of an implant 591
J. Allain, S. Le Mouel, M. C. Voiçin, G. Delepine and D. Goutallier

Supply and demand of bone allograft for revision hip surgery in Scotland 595
G. Galea, D. Kopman and B. J. M. Graham

Specific or general health outcome measures in the evaluation of total hip replacement 600
G. Garellick, H. Malchau and P. Herberts

Gentamicin release from old cement during revision hip arthroplasty 607
J. W. Powles, R. F. Spencer and A. M. Lovering

Cement as a risk factor for deep-vein thrombosis 611
M. T. Clarke, J. S. Green, W. M. Harper and P. J. Gregg

Sloppy hinge prosthetic elbow replacement for post-traumatic ankylosis or instability 614
D. P. Baksi

A simple method of shoulder arthrodesis 620
N. S. E.-S. Mohammed

The 'dropping' and 'hornblower's' signs in evaluation of rotator-cuff tears 624
G. Walch, A. Boulahia, S. Calderone and A. H. N. Robinson

Neuroma of the distal posterior interosseous nerve 629
Y. C. Loh, J. K. Stanley, S. Jari and I. A. Trail

Pollicisation of the index finger 631
D. I. Clark, J. Chell and T. R. C. Davis

Surgical management of hip dislocation in children with arthrogryposis multiplex congenita 636
H. Akazawa, K. Oda, S. Mitani, T. Yoshitaka, K. Asaumi and H. Inoue

Pathogenesis of soft-tissue contracture in club foot 641
H. Sano, H. K. Uhthoff, J. G. Jarvis, A. Mansingh and G. F. C. Wenckebach

Late sequelae of neonatal septic arthritis of the shoulder 645
C. F. A. Bos, L. J. C. D. Mol, W. R. Obermann and E. R. Tjin a Ton

Macrodactyly 651
P. P. Kotwal and M. Farooque

Soft-tissue amyloidoma 654
M. Flores, P. Nadarajan and D. C. Mangham

Multiple schwannomas in the peripheral nerves 657
A. Ogose, T. Hotta, T. Morita, H. Otsuka and Y. Hirata

The nature of the spondylolytic defect 662
J. A. Shipley and C. A. Beukes

Redisplaced unstable fractures of the distal radius 665
M. M. McQueen

Poor interobserver reliability of AO classification of fractures of the distal radius 670
T. Flinkkilä, A. Nikkola-Sihto, O. Kaarela, E. Pääkkö and T. Raatikainen

Fracture of the ipsilateral neck of the femur in shaft nailing 673
K. H. Yang, D. Y. Han, H. W. Park, H. J. Kang and J. H. Park

Assessment of the AO classification of intracapsular fractures of the proximal femur 679
C. M. Blundell, M. J. Parker, G. A. Pryor, J. Hopkinson-Woolley and S. S. Bhonsle

New radiographic projections for avulsion fractures of the lateral malleolus 684
N. Haraguchi, F. Kato and H. Hayashi

Ankle fractures in diabetics 689
R. G. McCormack and J. M. Leith

The treatment of subluxation of the hip in children over the age of four years 757
J. A. Fixsen and P. L. S. Li

Residual deformity in congenital radial club hands after previous centralisation of the wrist 762
H. Kawabata, T. Shibata, T. Masatomi and N. Yasui

Cat-scratch disease osteomyelitis from a dog scratch 766
D. Keret, M. Giladi, Y. Kletter and S. Wientroub

Progressive osseous heteroplasia 768
J. A. Urtizberea, H. Testart, F. Cartault, L. Boccon-Gibod, M. Le Merrer and F. S. Kaplan

Severe progressive deformities after limb lengthening in type-II fibular hemimelia 772
J. C. Y. Cheng, K. W. Cheung and B. K. W. Ng

Coregistration imaging of the foot 777
A. H. N. Robinson, N. Bird, N. Screaton, E. P. Wraight and B. F. Meggitt

Operative reconstruction after transverse rupture of the tendons of both peroneus longus and brevis 781
D. C. Borton, P. Lucas, N. M. Jomha, M. J. Cross and K. Slater

Subtalar arthrography in acute injuries of the calcaneofibular ligament 785
K. Sugimoto, N. Samoto, T. Takaoka, Y. Takakura and S. Tamai

Second fracture of the distal humerus after varus malunion of a supracondylar fracture in children 791
M. Takahara, I. Sasaki, T. Kimura, H. Kato, A. Minami and T. Ogino

Open reduction, internal fixation and fibular autografting for neglected fracture of the femoral neck 798
O. N. Nagi, M. S. Dhillon and V. G. Goni

Post-traumatic contracture of the elbow 805
M. S. Cohen and H. Hastings II

Open acromioplasty does not prevent the progression of an impingement syndrome to a tear 813
P. Hyvönen, S. Lohi and P. Jalovaara

Osteotomy of the radius and ulna for the Madelung deformity 817
M. V. Katchburian, F. B. dos Reis, F. Faloppa, W. M. Albertoni and J. Laredo Filho Jr

Ipsilateral recurrent lumbar disc herniation 825
G. Cinotti, G. S. Roysam, S. M. Eisenstein and F. Postacchini

Changes in the disc space after fractures of the thoracolumbar spine 833
F. C. Oner, R. R. van der Rijt, L. M. P. Ramos, W. J. A. Dhert and A. J. Verbout

Fracture-dislocation of the fifth lumbar vertebra 840
T. Aihara, K. Takahashi, M. Yamagata and H. Moriya

Radiculopathy after laminectomy for cervical compression myelopathy 846
L. Dai, B. Ni, W. Yuan and L. Jia

Total knee arthroplasty with the PFC system 850
P. A. Schai, T. S. Thornhill and R. D. Scott

Replacement arthroplasty of the valgus knee 859
N. J. Fiddian, C. Blakeway and A. Kumar

Unicompartmental or total knee replacement? 862
J. H. Newman, C. E. Ackroyd and N. A. Shah

Acute compartment syndrome of the thigh after joint replacement with anticoagulation 866
R. D. Nadeem, B. A. Clift, J. P. Martindale, W. A. Hadden and I. K. Ritchie

A ported, proximally-cemented femoral stem for total hip arthroplasty 869
A. A. Edidin, P. O. Merritt, B. H. Hack and M. T. Manley

Incisional cellulitis after total hip replacement 876
J. A. Rodriguez, C. S. Ranawat, R. N. Maniar and M. E. Umlas

The Burch-Schneider anti-protrusio cage in revision total hip arthroplasty 946
T. J. Gill, J. B. Sledge and M. E. Müller

Estimation of the extent of osteonecrosis of the femoral head using MRI 954
Y.-M. Kim, J. H. Ahn, H. S. Kang and H. J. Kim

Medium-term results of percutaneous, arthroscopically-assisted osteosynthesis of fractures of the tibial plateau 959
T. Scheerlinck, C. S. Ng, F. Handelberg and P. P. Casteleyn

Treatment of painful articular cartilage defects of the patella by carbon-fibre implants 965
K. Meister, A. Cobb and G. Bentley

Randomised, prospective study comparing cemented and cementless total knee replacement 971
A. W. McCaskie, D. J. Deehan, T. P. Green, K. R. Lock, J. R. Thompson, W. M. Harper and P. J. Gregg

Wear of congruent meniscal bearings in unicompartmental knee replacement 976
V. Psychoyios, R. W. Crawford, D. W. Murray and J. J. O'Connor

The Oxford medial unicompartmental arthroplasty 983
D. W. Murray, J. W. Goodfellow and J. J. O'Connor

Expansion of an osteoarthritic cyst associated with wear debris 990
R. Crawford, A. Sabokbar, A. Wulke, D. W. Murray and N. A. Athanasou

A technique for enhancing union of allograft to host bone 994
S. M. Kumta, P. C. Leung, J. F. Griffith, D. J. Roebuck, L. T. C. Chow and C. K. Li

Surgical stabilisation of the lower limb in osteogenesis imperfecta using the Sheffield telescopic intramedullary rod system 999
J. M. Wilkinson, B. W. Scott, A. M. Clarke and M. J. Bell

A new method of stabilising the elevated laminae in open-door laminoplasty 1005
J.-M. Wang, K.-J. Roh, D.-J. Kim and D.-W. Kim

Spinal motion in lumbar degenerative disc disease 1009
A. H. McGregor, H. R. Cattermole and S. P. F. Hughes

Dynamic external fixation for injuries of the proximal interphalangeal joint 1014
G. I. Bain, J. A. Mehta, R. J. Heptinstall and M. Bria

The use of external fixators for finger injuries 1020
P. J. Halliwell

Prognostic factors for major limb re-implantation at both immediate and long-term follow-up 1024
S. Waikakul, V. Vanadurongwan and A. Unnanuntana

Management of recurrent, complex instability of the elbow with a hinged external fixator 1031
M. D. McKee, S. H. Bowden, G. J. King, S. D. Patterson, J. B. Jupiter, H. B. Bamberger and N. Paksima

A primary intrapelvic hydatid cyst presenting with foot drop and a gluteal swelling 1037
A. Gupta, A. Kakkar, M. Chadha and C. B. Sathaye

The treatment of congenital brachymetatarsia by one-stage lengthening 1040
G. H. Baek and M. S. Chung

The use of antibiotic-impregnated cement in infected reconstructions after resection for bone tumours 1045
D. Donati and R. Biscaglia

Research Section

Removal of proteoglycans from the surface of defects in articular cartilage transiently enhances coverage by repair cells 144
E. B. Hunziker and E. Kapfinger

Sensory nerves in the interface membrane of aseptic loose hip prostheses 151
M. Ahmed, J. Bergström, H. Lundblad, W. J. Gillespie and A. Kreicbergs

The role of methylmethacrylate monomer in the formation and haemodynamic outcome of pulmonary fat emboli 156
A. W. Elmaraghy, B. Humeniuk, G. I. Anderson, E. H. Schemitsch and R. R. Richards

Tenodeses destroy the kinematic coupling of the ankle joint complex 162
D. Rosenbaum, H. P. Becker, H.-J. Wilke and L. E. Claes

Simultaneous measurements of sagittal knee laxity with an external device and radiostereometric analysis 169
L. P. Jorn, T. Fridén, L. Ryd and A. Lindstrand

PCL reconstruction 173
A. Race and A. A. Amis

Quantitative comparison of wear debris from UHMWPE that has and has not been sterilised by gamma irradiation 340
A. A. Besong, J. L. Tipper, E. Ingham, M. H. Stone, B. M. Wroblewski and J. Fisher

Wear in uncemented porous and cemented polyethylene sockets 345
I. Önsten, Å. S. Carlsson and J. Besjakov

Interbody cage stabilisation in the lumbar spine 351
T. Lund, T. R. Oxland, B. Jost, P. Cripton, S. Grassmann, C. Etter and L.-P. Nolte

Health status after Ilizarov reconstruction of post-traumatic lower-limb deformity 360
M. D. McKee, D. Yoo and E. H. Schemitsch

Laser Doppler flowmetry in the diagnosis of chronic compartment syndrome 365
P. Abraham, G. Leftheriotis and J. L. Saumet

The prevention of peridural adhesions 520
J. J. Quist, W. J. A. Dhert, B. P. Meij, W. J. Visser, F. C. Oner, H. A. W. Hazewinkel and A. J. Verbout

Treatment of osteomyelitis with antibiotic-soaked porous glass ceramic 527
K. Kawanabe, Y. Okada, Y. Matsusue, H. Iida and T. Nakamura

Cellular profile and cytokine production at prosthetic interfaces 531
S. B. Goodman, P. Huie, Y. Song, D. Schurman, W. Maloney, S. Woolson and R. Sibley

Iron deposits and catabolic properties of synovial tissue from patients with haemophilia 540
G. Roosendaal, M. E. Vianen, M. J. G. Wenting, A. C. van Rinsum, H. M. van den Berg, F. P. J. G. Lafeber and J. W. J. Bijlsma

Dose-related effects of shock waves on rabbit tendo Achillis 546
J. D. Rompe, C. J. Kirkpatrick, K. Küllmer, M. Schwitalle and O. Krischek

Induction of matrix metalloproteinase expression in human macrophages by orthopaedic particulate debris in vitro 694
Y. Nakashima, D.-H. Sun, W. J. Maloney, S. B. Goodman, D. J. Schurman and R. Lane Smith

High levels of expression of collagenase-3 (MMP-13) in pathological conditions associated with a foreign-body reaction 701
S. Imai, Y. T. Konttinen, M. Jumppanen, O. Lindy, A. Čeponis, P. Kemppinen, T. Sorsa, S. Santavirta, J.-W. Xu and C. Lopéz-Otín

The morphology of the femur in developmental dysplasia of the hip 711
N. Sugano, P. C. Noble, E. Kamaric, J. K. Salama, T. Ochi and H. S. Tullos

Structural disorders at the insertion of the supraspinatus tendon 720
H. Sano, H. K. Uhthoff, D. S. Backman, J. A. Brunet, G. Trudel, B. Pham and H. Ishii

Primary healing of physeal separation under rigid fixation 726
S. Iwabu, T. Sasaki, M. Kameyama, T. Teruya, Y. Horiuchi and Y. Yabe

Solvent-dried and gamma-irradiated tendon allografts in rats 731
A. Maeda, S. Horibe, N. Matsumoto, N. Nakamura, T. Mae and K. Shino

Sensory nerve fibres from lumbar intervertebral discs pass through rami communicantes 737
K. Suseki, Y. Takahashi, K. Takahashi, T. Chiba, M. Yamagata and H. Moriya

Changes in the expression of Fas, osteonectin and osteocalcin with age in the rabbit growth plate 880
T. Aizawa, H. I. Roach, S. Kokubun and Y. Tanaka

Anti-inflammatory properties of titanium in the joint environment 888
L. Overgaard, N. Danielsen and L. M. Bjursten

Quantification of third-body damage and its effect on UHMWPE wear with different types of femoral head 894
H. Minakawa, M. H. Stone, B. M. Wroblewski, J. G. Lancaster, E. Ingham and J. Fisher

In vitro measurement of patellofemoral force after three types of knee replacement 900
R. K. Miller, J. W. Goodfellow, D. W. Murray and J. J. O'Connor

Dupuytren's disease and frozen shoulder induced by treatment with a matrix metalloproteinase inhibitor 907
J. W. Hutchinson, G. M. Tierney, S. L. Parsons and T. R. C. Davis

C-reactive protein level after total hip and total knee replacement 909
J. White, M. Kelly and R. Dunsmuir

Bone-resorbing cytokines in serum of patients with aseptic loosening of hip prostheses 912
D. Granchi, E. Verri, G. Ciapetti, S. Stea, L. Savarino, A. Sudanese, M. Mieti, R. Rotini, D. Dallari, G. Zinghi and L. Montanaro

Autologous perichondral tissue for meniscal replacement 918
J. Bruns, J. Kahrs, J. Kampen, P. Behrens and W. Plitz

Effects of particulate debris on macrophage-dependent fibroblast stimulation in coculture 924
M. Lind, M. C. D. Trindade, B. Yaszay, S. B. Goodman and R. L. Smith

Genotype phenotype correlation in achondroplasia and hypochondroplasia 1052
Y. Matsui, H. Kawabata, N. Yasui, T. Kimura, N. Tsumaki and T. Ochi

Venous haemodynamics after total knee arthroplasty 1057
G. H. Westrich, L. M. Specht, N. E. Sharrock, R. E. Windsor, T. P. Sculco, S. B. Haas, J. F. Trombley and M. Peterson

Observations on the direction of wear in Charnley sockets retrieved at revision 1067
R. M. Hall, P. Siney, Unsworth A. and B. M. Wroblewski

Spinal canal capacity in simulated displacements of the atlantoaxial segment 1073
S. K. Tucker and B. A. Taylor

Combined Meeting of the Orthopaedic Associations of the English-speaking World 553

Obituaries

Jean Barnes 1925 – 1997 554
Thomas John Fairbank 1912 – 1998 931
John Rowland Hughes 1915 – 1998 932
William Waugh 1922 – 1998 1079

Correspondence

Transpedicular lumbosacral fixation for non-traumatic disorders 180
Pain levels after total hip replacement 180
Fracture on removal of the ACE tibial nail 181
Herbert screw fixation of scaphoid fractures 181
Rotator-cuff tear of the hip 182
Valgus-extension osteotomy for advanced osteoarthritis in dysplastic hips 182
The behavioural response to whiplash injury 183
Recurrence of giant-cell tumour of bone after the use of cement 370
Thromboprophylaxis and death after total hip replacement 370
MRI can prevent unnecessary arthroscopy 371
Early tourniquet release during total knee arthroplasty 372
Alternative treatments for meniscal injuries 372
The behavioural response to whiplash injury 555
Neurological deterioration after posterior wiring of the cervical spine 555
Fractures of the base of the middle phalanx of the finger 555
MRI after operative reduction for developmental dysplasia of the hip 556
Fracture on removal of the ACE tibial nail 557
A locking nail for fractures of the humerus 557
Reamed or unreamed tibial nailing for closed tibial fractures 557
Closed treatment of displaced middle-third fractures of the clavicle gives poor results 558
Transient osteoporosis of the hip 743
Chondrocyte transplantation using a collagen bilayer matrix for cartilage repair 743
Planovalgus and cavovarus deformity of the hind foot 744
Severe osteolysis after third-body wear due to hydroxyapatite particles from acetabular cup coating 745
Fixation of fractures of the clavicle with Kirschner wires 746
Long-term results of late non-operative reduction of developmental dysplasia of the hip 746
Synthetic porous ceramic compared with autograft in scoliosis surgery 747
Superolateral wear of the acetabulum 933
The anatomy of acute scaphoid fractures 933

Effect of particulate cobalt, chromium and cobalt-chromium alloy on human osteoblast-like cells in vitro 933

Diagnostic value of intra-articular anaesthetic in primary osteoarthritis of the hip 934

Academic orthopaedics - a discipline at risk 1081

Book reviews 184, 373, 559, 748, 935, 1083

Announcements 562, 749, 938, 1087

Corrections 562, 749, 1087

Forthcoming meetings 187, 375, 563, 750, 939, 1088

Author Index 1091

Subject Index 1103